

GUIDANCE OF INVASIVE MEDICAL DEVICES WITH  
COMBINED THREE DIMENSIONAL ULTRASONIC IMAGING SYSTEM

Abstract of the disclosure:

A composite three dimensional ultrasound image containing position or image information of an invasive medical device is provided. The three dimensional ultrasound image data can be combined with position or image information of the invasive medical device either prior to or subsequent to volume rendering. The three dimensional ultrasound image data and the interventional system data are oriented and scaled to a common frame of reference and then combined. The volume rendering can be performed either on the ultrasound system, on the interventional system, or separately on both before combining.